ABSTRACT OF THE DISCLOSURE

combined fluid-air evaporator having at least two separate duct systems is described, through which separate material flows may be conducted, at least one of the two duct systems having a free surface which may be brought into thermal contact with an air flow, and the at least two duct systems being at least partially in thermal contact Furthermore, a ventilation arrangement with one another. for a building is described using the combined fluid-air evaporator, in which a used air flow directed out of the building, which is in thermal contact with an outside air flow via an air-air heat exchanger, comes into thermal contact with the combined fluid-air evaporator, through which a refrigerant and an exothermic fluid pass, the refrigerant circulating in the loop of a heat pump, whose condenser is connected downstream in the flow direction from the air-air heat exchanger in the heated outside air flow, and the exothermic fluid circulates in the loop of a heat accumulator system.